Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-02-12-09** **Date: 15-02-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road and footpath in Ward no.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/69/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-2018
Sample ID No	:	2018-02-12-09 /01
Sample Type	:	ACC 53grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-02-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	275.5	225m^2/kg, Min
3	Density (gm/cc)	3.1	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-02-12-09** **Date: 13-03-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road and footpath in Ward no.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/69/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-2018
Sample ID No	:	2018-02-12-09 /01
Sample Type	:	ACC 53grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-02-2018
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-02-12-09** **Date: 15-02-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road and footpath in Ward no.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/69/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-02-2018
Sample ID No	:	2018-02-12-09 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	12-02-2018

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	280	280	1.9	98.1	90-100
3	20 mm	5289	5569	37.1	62.9	30-70
4	10 mm	4700	10269	68.5	31.5	10-35
5	4.75 mm	4190	14459	96.4	3.6	0-5
6	Pan	541	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-02-12-09** **Date: 15-02-2018**

Sample ID No : 2018-02-12-09 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.6**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.7**	
3	Specific Gravity	**2.67**	–
4	Bulk Density(Loose) (Kg/l)	**1.54**	–
5	Bulk Density(Compacted) (Kg/l)	**1.58**	–
6	Water Absorption(%)	**0.22**	–

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-02-12-09** **Date: 15-02-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road and footpath in Ward no.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/69/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-18
Sample ID No	:	2018-02-12-09 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-02-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	254	254	5.1	94.9	90-100
3	10 mm	2885	3139	62.8	37.2	25-55
4	4.75 mm	1525	4664	93.3	6.7	0-10
5	Pan	336	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-02-12-09** **Date: 15-02-18**

Sample ID No : 2018-02-12-09 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.1	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-02-12-09** **Date: 15-02-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Improvements to road and footpath in Ward no.06 Thanisandra.

Agency : Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/69/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-02-18

Sample ID No : 2018-02-12-09 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-02-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	90	90	9.0	91.0	90-100	90-100	90-100	95-100
3	2.36 mm	129	219	21.9	78.1	60-95	75-100	85-100	95-100
4	1.18 mm	100	319	31.9	68.1	30-70	55-90	75-100	90-100
5	600 micron	280	599	59.9	40.1	15-34	35-59	60-79	80-100
6	300 micron	227	826	82.6	17.4	5-20	8-30	12-40	15-50
7	150 micron	104	930	93.0	7.0	0-10	0-10	0-10	0-15
8	Pan	70	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-02-12-09** **Date: 15-02-2018**

Sample ID No : 2018-02-12-09 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	8.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-02-12-09** **Date: 15-02-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road and footpath in Ward no.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/69/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-2018
Sample ID No	:	2018-02-12-09 /07
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	12-02-2018

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	201	200	16080	33.120	2059.7	2053.8	Not less than 1800Kg/m^3
2	402	200	202	16241	33.220	2045.5		
3	401	200	202	16200	33.310	2056.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	35.230	33.690	4.57	4.51	Shall not be more than 10% by mass
2	35.160	33.770	4.12		
3	35.520	33.880	4.84		

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Lab ID : **CP-2018-02-12-09** **Date: 15-02-2018**

Sample ID No : **2018-02-12-09**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	200	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	201	201	
3	403	201	202	
4	400	201	200	
5	401	200	200	
6	401	202	201	
7	402	202	202	
8	402	201	200	
9	400	200	200	
10	401	202	201	
11	401	200	202	
12	400	200	201	
13	400	201	201	
14	402	202	200	
15	402	200	200	
16	403	200	200	
17	401	201	202	
18	401	202	202	
19	402	201	201	
20	400	200	201	
Average of 20	**401**	**201**	**201**	

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Lab ID : **CP-2018-02-12-09**

Date: 15-02-2018

Sample ID No : 2018-02-12-09

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	200	80200	316.7	3.9	4.0
2	400	201	80400	321.7	4.0	
3	403	201	81003	329.8	4.1	
4	400	201	80400	314.7	3.9	
5	401	200	80200	317.5	4.0	
6	401	202	81002	319.8	3.9	
7	402	202	81204	305.8	3.8	
8	402	201	80802	322.9	4.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-02-12-09** **Date: 16-02-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road and footpath in Ward no.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/69/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-2018
Sample ID No	:	2018-02-12-09 /04
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	12/02/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.22	165.37	2.846	7887	137.9	17.5	17.5	21.9
2	B	100.17	165.26	2.739	7879	138.5	17.6	17.6	22.0
3	C	100.31	165.28	2.843	7901	136.6	17.3	17.3	21.6

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-02-13-03** **Date: 17-02-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road and footpath in Ward no.06 Thanisandra.
Agency	:	Executive Engineer, KRIDL, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Near Bhashyam circle, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/69/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-02-2018
Sample ID No	:	2018-02-13-03 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	13/02/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.14	150.35	1.740	4434	78.9	17.8	16.6	20.7
2	Cover Slab-2	75.23	150.65	1.823	4444	75.8	17.1	15.9	19.8
3	Cover Slab-3	75.29	150.42	1.785	4451	74.4	16.7	15.5	19.4

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